

# **METHODS AND DEVICES FOR OPTIMIZING POWER CONSUMPTION OF TRIP UNITS CONTAINING MICROPROCESSORS**

## **Abstract of Disclosure**

A method is provided for optimizing the power consumption of a trip unit. The method comprises sensing a first output from a power system, the first output including a first current and a current-sensing signal; supplying a power supply with only the first current, or with a second current alone or in combination with the first current; powering a microprocessor from the power supply; inputting a second output to the microprocessor indicative of whether the power supply is receiving the second current; operating the microprocessor at a first state when the second output indicates the power supply is not receiving the second current; and operating the microprocessor at a second state when the second output indicates the power supply is receiving the second current alone or in combination with the first current.

Figures

Figure 1: A line graph showing the relationship between the number of figures and the number of pages. The x-axis represents the number of figures (0 to 10) and the y-axis represents the number of pages (0 to 10). The data points are as follows:

Number of Figures	Number of Pages
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10